HS-100ST Accelerometer

AC acceleration and temperature output via Braided Cable

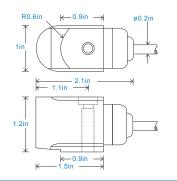
Key Features

- Temperature output
- · Side entry for easy access
- · For use with data collector

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical







Technical Performance

Mounted Base Resonance see 'How To Order' table (nominal) Sensitivity see: 'How To Order' table ±10% Nominal 80Hz at 72°F Frequency Response 120cpm (2Hz) to 600kcpm (10kHz) ± 5% 90cpm (1.5Hz) to 720kcpm (12kHz) ± 10% 48cpm (0.8Hz) to 900kcpm (15kHz) ± 3dB Isolation Base isolated Range see: 'How To Order' table Temperature Output 10 mV/°C standard 212°F - Option 284°F Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Compression Mounting Torque 5.9ft. lbs Mounting Bolt Provided see: 'How To Order' table x 1.2in long Weight 6.5 oz. (nominal) body only Maximum Cable Length 3,280 ft. Standard Cable Length Shielded Cable Braided - length to be specified with order Mounting Threads see: 'How To Order' table

Electrical

 Excitation Voltage
 18-30Volts DC

 Electrical Noise
 0.1mg max

 Current Range
 0.5mA to 8mA

 Bias Voltage
 10 - 12 Volts DC

 Settling Time
 2 seconds

 Output Impedance
 200 Ohms max

 Case Isolation
 >108 Ohms at 500 Volts

Environmental

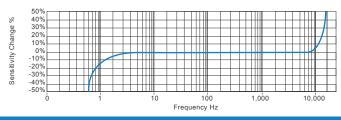
 Operating Temperature Range
 -67 to 284°F

 Sealing
 IP65

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

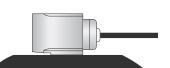
Typical Frequency Response (at 100mV/g)



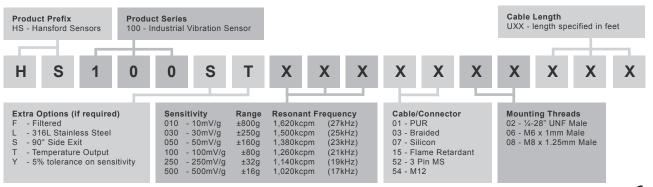
Applications

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment

Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



How To Order





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